



April 20, 2006

ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. THOMAS KOSEL

SITE: 76 STATION 5105  
1950 GUERNEVILLE ROAD  
SANTA ROSA, CALIFORNIA

RE: QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 5105, located at 1950 Guerneville Road, Santa Rosa, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink, appearing to read "Anju Farfan".

Anju Farfan  
QMS Operations Manager

CC: Mr. Roger Hoffmore, Delta Environmental, Inc. (2 copies)

Enclosures:  
20-0400/5105R05.QMS





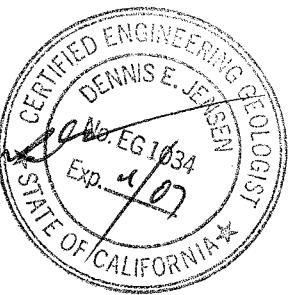
**QUARTERLY MONITORING REPORT  
JANUARY THROUGH MARCH 2006**

76 STATION 5105  
1950 Guerneville Road  
Santa Rosa, California

Prepared For:

Mr. Thomas Kosel  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:



A large, handwritten signature of "Dennis E. Jensen" is positioned to the left of a circular state seal of California. The seal is for a Certified Engineering Geologist named Dennis E. Jensen, with license number EG 1634 and expiration date April 10, 2007. The text around the border of the seal includes "CERTIFIED ENGINEERING GEOLOGIST", "DENNIS E. JENSEN", "No. EG 1634", "Exp. 4/07", and "STATE OF CALIFORNIA".

Senior Project Geologist, Irvine Operations  
April 20, 2006



<b>LIST OF ATTACHMENTS</b>	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results Table 2b: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 3/23/06 Groundwater Sampling Field Notes – 3/23/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**January 2006 through March 2006**  
**76 Station 5105**  
**1950 Guerneville Road**  
**Santa Rosa, CA**

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Project Coordinator: **Thomas Kosel**  
Telephone: **916-558-7666**      Water Sampling Contractor: **TRC**  
Compiled by: **Daniel Lee**

Date(s) of Gauging/Sampling Event: **03/23/06**

**Sample Points**

Groundwater wells: **9** onsite, **0** offsite      Wells gauged: **9**      Wells sampled: **9**  
Purging method: **Submersible pump**  
Purge water disposal: **Onyx/Rodeo Unit 100**  
Other Sample Points: **0**      Type: **n/a**

**Liquid Phase Hydrocarbons (LPH)**

Wells with LPH: **0**      Maximum thickness (feet): **n/a**  
LPH removal frequency: **n/a**      Method: **n/a**  
Treatment or disposal of water/LPH: **n/a**

**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **6.88 feet**      Maximum: **11.76 feet**  
Average groundwater elevation (relative to available local datum): **112.99 feet**  
Average change in groundwater elevation since previous event: **3.26 feet**  
Interpreted groundwater gradient and flow direction:

Current event: **0.04 ft/ft, west**  
Previous event: **0.02 ft/ft, southwest (12/01/05)**

**Selected Laboratory Results**

Wells with detected **Benzene**: **0**      Wells above MCL (1.0 µg/l): **n/a**  
Maximum reported benzene concentration: **n/a**

Wells with **TPPH 8260B**      **0**  
Wells with **MTBE**      **7**      Maximum: **1,400 µg/l (MW-7)**

**Notes:**

# TABLES

## TABLE KEY

### STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
$\mu\text{g/l}$	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
$\text{mg/l}$	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

### ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (D<sub>p</sub> x LPH Thickness), where D<sub>p</sub> is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

### REFERENCE

TRC began groundwater monitoring and sampling 76 Station 5105 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

## **Contents of Tables**

### **Site: 76 Station 5105**

Current Event										Comments		
Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 1a	Well/ Date	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DPE	ETBE	TAME			
<b>Historic Data</b>										Comments		
Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 2a	Well/ Date	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	DPE	ETBE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene
Table 2b	Well/ Date	Chromium (total)	Lead (total)	Mercury (total)	Nickel (dissolved)	Zinc (dissolved)					Barium	Cadmium (dissolved)

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**March 23, 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 3/23/06	122.73	11.30	0.00	111.43	2.35	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<20	--	910
MW-3 3/23/06	121.75	8.09	0.00	113.66	3.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
MW-6 3/23/06	124.02	10.25	0.00	113.77	4.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-7 3/23/06	121.46	11.76	0.00	109.70	2.04	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1400	
MW-8 3/23/06	122.16	11.75	0.00	110.41	1.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
MW-9 3/23/06	123.59	10.39	0.00	113.20	3.75	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-10 3/23/06	123.55	8.93	0.00	114.62	3.72	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	700	
MW-11 3/23/06	123.14	8.45	0.00	114.69	3.74	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	90	
MW-12 3/23/06	122.34	6.88	0.00	115.46	3.90	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.2	

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )
<b>MW-1</b> 3/23/06	ND<50	ND<100	ND>2000	ND<10	ND<20	ND<10	ND<10	ND<10
<b>MW-3</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
<b>MW-6</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
<b>MW-7</b> 3/23/06	ND<50	1200	ND>2000	ND<10	ND<10	ND<20	ND<10	ND<10
<b>MW-8</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
<b>MW-9</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
<b>MW-10</b> 3/23/06	ND<50	110	ND<1000	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0
<b>MW-11</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
<b>MW-12</b> 3/23/06	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (8260)	TTPH (8260)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW1</b>													
5/25/91	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
10/7/91	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
1/10/92	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
4/8/92	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
7/2/92	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
10/6/92	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
1/6/93	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
4/1/93	--	--	--	--	--	--	ND	ND	ND	ND	--	--	--
7/2/93	123.02	15.70	0.00	107.32	--	--	ND	ND	ND	ND	--	--	--
10/4/93	122.71	16.71	0.00	106.00	-1.32	--	ND	ND	ND	ND	--	--	--
1/27/94	122.73	13.39	0.00	109.34	3.34	--	ND	ND	ND	ND	--	--	--
4/28/94	122.73	13.87	0.00	108.86	-0.48	--	ND	ND	ND	ND	--	--	--
10/19/94	122.73	16.65	0.00	106.08	-2.78	--	ND	ND	ND	ND	--	--	--
4/17/95	122.73	12.50	0.00	110.23	4.15	--	ND	ND	ND	ND	--	--	--
10/12/95	122.73	16.84	0.00	105.89	-4.34	--	ND	ND	ND	ND	--	--	--
4/8/96	122.73	11.97	0.00	110.76	4.87	--	ND	ND	ND	ND	--	--	--
10/29/96	122.73	15.16	0.00	107.57	-3.19	--	ND	ND	ND	ND	--	590	--
4/25/97	122.73	12.82	0.00	109.91	2.34	--	ND	ND	ND	ND	448	451	--
4/13/98	122.73	11.65	0.00	111.08	1.17	--	ND	ND	ND	ND	390	360	--
8/31/98	122.73	14.68	0.00	108.05	-3.03	--	ND	ND	ND	ND	480	540	--
4/5/99	122.73	11.59	0.00	111.14	3.09	--	ND	ND	ND	ND	ND	ND	--
3/31/00	122.73	12.30	0.00	110.43	-0.71	--	ND	ND	ND	ND	ND	ND	--
4/6/01	122.73	12.44	0.00	110.29	-0.14	--	ND	ND	ND	ND	635	880	--

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPPH (8260)	Benzene	Toluene	Ethy-l-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )							
<b>MW-1 continued</b>													
4/22/02	122.73	11.98	0.00	110.75	0.46	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	26	
4/11/03	122.73	12.91	0.00	109.82	-0.93	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	7.2	
5/12/04	122.73	13.35	0.00	109.38	-0.44	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	1000	
6/7/05	122.73	12.91	0.00	109.82	0.44	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	660	570	
9/26/05	122.73	15.32	0.00	107.41	-2.41	260	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	500	
12/1/05	122.73	13.65	0.00	109.08	1.67	--	ND<10	ND<10	ND<10	ND<20	--	1000	
3/23/06	122.73	11.30	0.00	111.43	2.35	ND<1000	ND<10	ND<10	ND<10	ND<20	--	910	
<b>MW-2 (Screen Interval in feet: DNA)</b>													
5/25/91	--	--	--	--	--	--	ND	ND	ND	ND	--	--	
10/7/91	--	--	--	--	--	--	ND	ND	ND	ND	--	--	
1/10/92	--	--	--	--	--	--	ND	ND	ND	ND	--	--	
4/8/92	--	--	--	--	--	--	ND	ND	ND	ND	460	--	
7/22/92	--	--	--	--	--	--	ND	ND	ND	ND	240	--	
10/6/92	--	--	--	--	--	--	ND	ND	ND	ND	100	--	
1/6/93	--	--	--	--	--	--	ND	ND	ND	ND	240	--	
4/1/93	--	--	--	--	--	--	ND	ND	ND	ND	270	--	
7/2/93	121.89	13.76	0.00	108.13	--	--	ND	ND	ND	ND	200	--	
10/4/93	121.47	14.75	0.00	106.72	-1.41	--	ND	ND	ND	ND	81	--	
1/27/94	121.49	12.53	0.00	108.96	2.24	--	--	--	--	--	--	--	
4/28/94	121.49	12.54	0.00	108.95	-0.01	--	ND	ND	ND	ND	0.62	290	
10/19/94	121.49	15.10	0.00	106.39	-2.56	--	0.79	ND	0.53	ND	98	--	
4/17/95	121.49	10.92	0.00	110.57	4.18	--	ND	ND	ND	ND	56	--	
<b>MW-3 (Screen Interval in feet: 9.0-25.0)</b>													

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Sampled	Date	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation (8260)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
MW-3	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )							
	5/25/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	10/7/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	1/10/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	4/8/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	7/2/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	10/6/92	--	--	--	--	--	--	1.4	ND	ND	ND	ND	ND	--
	1/6/93	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	4/1/93	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	7/2/93	121.98	11.98	0.00	110.00	--	--	ND	ND	ND	ND	ND	ND	--
	10/4/93	121.73	13.01	0.00	108.72	-1.28	--	ND	ND	ND	ND	ND	ND	--
	1/27/94	121.75	10.86	0.00	110.89	2.17	--	--	--	--	--	--	--	--
	4/28/94	121.75	10.56	0.00	111.19	0.30	--	ND	ND	ND	ND	ND	ND	--
	10/19/94	121.75	14.73	0.00	107.02	-4.17	--	--	--	--	--	--	--	--
	4/17/95	121.75	8.40	0.00	113.35	6.33	--	ND	ND	ND	ND	ND	ND	--
	10/12/95	121.75	14.61	0.00	107.14	-6.21	--	--	--	--	--	--	--	--
	4/8/96	121.75	8.38	0.00	113.37	6.23	--	ND	ND	ND	ND	ND	ND	--
	10/29/96	121.75	12.92	0.00	108.83	-4.54	--	--	--	--	--	--	--	--
	4/25/97	121.75	9.64	0.00	112.11	3.28	--	--	--	--	--	--	ND	--
	4/13/98	121.75	8.38	0.00	113.37	1.26	--	--	--	--	--	--	14	--
	8/31/98	121.75	11.96	0.00	109.79	-3.58	--	ND	ND	ND	ND	ND	ND	2.66
	4/5/99	121.75	8.38	0.00	113.37	3.58	--	ND	ND	ND	ND	ND	ND	5.2
	3/31/00	121.75	9.00	0.00	112.75	-0.62	--	ND	ND	ND	ND	ND	ND	8.5
	4/6/01	121.75	9.23	0.00	112.52	-0.23	--	ND	ND	ND	ND	ND	ND	7.8
	4/22/02	121.75	8.74	0.00	113.01	0.49	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	ND	5.1
														7.6

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation (8260)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )							
<b>MW-3 continued</b>													
4/11/03	121.75	9.61	0.00	112.14	-0.87	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.0	5.1	
5/12/04	121.75	10.09	0.00	111.66	-0.48	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	3.9	
6/7/05	121.75	9.39	0.00	112.36	0.70	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	2.8	
9/26/05	121.75	13.12	0.00	108.63	-3.73	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.5	
12/1/05	121.75	11.29	0.00	110.46	1.83	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
3/23/06	121.75	8.09	0.00	113.66	3.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
<b>MW-4 (Screen Interval in feet: DNA)</b>													
4/8/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	--	--
7/2/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	930	--
10/6/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	320	--
1/6/93	--	--	--	--	--	--	ND	ND	ND	ND	ND	400	--
4/1/93	--	--	--	--	--	--	ND	ND	ND	ND	ND	2.8	360
7/2/93	121.77	13.52	0.00	108.25	--	--	ND	ND	ND	ND	ND	350	--
10/4/93	121.49	14.51	0.00	106.98	-1.27	--	ND	ND	ND	ND	ND	25	--
1/27/94	121.51	12.03	0.00	109.48	2.50	--	--	--	--	--	--	--	--
4/28/94	121.51	10.92	0.00	110.59	1.11	--	ND	ND	ND	ND	ND	180	--
10/19/94	121.51	13.78	0.00	107.73	-2.86	--	ND	ND	ND	ND	ND	260	--
4/17/95	121.51	12.15	0.00	109.36	1.63	--	ND	ND	ND	ND	ND	90	--
10/12/95	121.51	14.00	0.00	107.51	-1.85	--	ND	ND	ND	ND	ND	29	--
4/8/96	121.51	10.57	0.00	110.94	3.43	--	ND	ND	ND	ND	ND	--	--
<b>MW-5 (Screen Interval in feet: DNA)</b>													
1/27/94	122.07	13.73	0.00	108.34	--	--	ND	ND	ND	ND	ND	--	--
4/28/94	122.07	14.25	0.00	107.82	-0.52	--	ND	ND	ND	ND	ND	--	--

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
		(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )							
<b>MW-5</b> continued													
10/19/94	122.07	16.15	0.00	105.92	-1.90	--	ND	ND	ND	ND	--	--	
4/17/95	122.07	13.21	0.00	108.86	2.94	--	ND	ND	ND	ND	--	--	
10/12/95	122.07	16.38	0.00	105.69	-3.17	--	ND	ND	ND	ND	--	--	
4/8/96	122.07	--	--	--	--	--	--	--	--	--	--	--	Destroyed
<b>MW-6</b> (Screen Interval in feet: 11.04-25.24)													
9/26/05	124.02	16.03	0.00	107.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/1/05	124.02	15.02	0.00	109.00	1.01	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/23/06	124.02	10.25	0.00	113.77	4.77	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-7</b> (Screen Interval in feet: 12.04-25.33)													
9/26/05	121.46	12.75	0.00	108.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.1	
12/1/05	121.46	13.80	0.00	107.66	-1.05	--	ND<10	ND<10	ND<10	ND<20	--	1200	
3/23/06	121.46	11.76	0.00	109.70	2.04	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1400	
<b>MW-8</b> (Screen Interval in feet: 12.36-25.20)													
9/26/05	122.16	15.49	0.00	106.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/1/05	122.16	13.64	0.00	108.52	1.85	--	ND<50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/23/06	122.16	11.75	0.00	110.41	1.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.8	
<b>MW-9</b> (Screen Interval in feet: 12.72-25.27)													
9/26/05	123.59	15.89	0.00	107.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/1/05	123.59	14.14	0.00	109.45	1.75	--	ND<50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/23/06	123.59	10.39	0.00	113.20	3.75	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-10</b> (Screen Interval in feet: 11.98-24.10)													
9/26/05	123.55	15.33	0.00	108.22	--	420	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	960	
12/1/05	123.55	12.65	0.00	110.90	2.68	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	760	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**May 1991 Through March 2006**  
**76 Station 5105**

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation (8260)	TPPH (8260)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	Comments
MW-10 continued		(feet)	(feet)	(feet)	(feet)	(feet)	( $\mu\text{g/l}$ )						
3/23/06	123.55	8.93	0.00	114.62	3.72	ND>500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	--	700
<b>MW-11</b> <b>(Screen Interval in feet: 8.12-25.14)</b>													
9/26/05	123.14	14.91	0.00	108.23	--	52	ND>0.50	ND<0.50	ND<0.50	ND<1.0	--	--	85
12/1/05	123.14	12.19	0.00	110.95	2.72	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	81
3/23/06	123.14	8.45	0.00	114.69	3.74	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	90
<b>MW-12</b> <b>(Screen Interval in feet: 8.08-24.90)</b>													
9/26/05	122.34	13.24	0.00	109.10	--	1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	3100
12/1/05	122.34	10.78	0.00	111.56	2.46	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	6.2
3/23/06	122.34	6.88	0.00	115.46	3.90	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	7.2

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Barium	Cadmium (dissolved)	
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )					
<b>MW-1</b>															
5/25/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/7/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1/10/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4/8/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7/2/92	ND	ND	ND	ND	ND	0.56	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/6/92	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND
1/6/93	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/1/93	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
7/2/93	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/4/93	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/28/94	-	130	-	-	-	0.66	-	-	-	-	-	-	-	2	0.77
10/19/94	-	560	-	-	-	1.3	-	-	-	-	-	-	-	-	-
4/17/95	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/12/95	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/8/96	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
10/29/96	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
8/31/98	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/5/99	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
3/31/00	-	ND	ND	83	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/6/01	-	ND	ND	94	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
4/22/02	-	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	-	-
4/11/03	-	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	-	-
5/12/04	-	750	ND<50	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<10	ND<5.0	ND<5.0	ND<5.0	-	-
6/7/05	-	ND<500	ND<250	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	-	-
9/26/05	ND<200	--	54	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	-	-
12/1/05	ND<50	ND<1000	ND<100	ND<2000	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	-	-

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPPE	ETBEE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Barium	Cadmium (dissolved)
MW-1 continued 3/23/06	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )				
MW-2														
5/25/91	-	ND	-	-	-	ND	-	-	-	-	-	ND	ND	-
10/7/91	ND	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
1/10/92	ND	100	-	-	-	ND	-	-	-	-	ND	ND	-	-
4/8/92	ND	140	-	-	-	ND	-	-	-	-	ND	ND	-	-
7/2/92	-	120	-	-	-	ND	-	-	-	-	ND	ND	-	-
10/6/92	-	59	-	-	-	-	-	-	-	-	-	-	-	-
1/6/93	-	120	-	-	-	-	-	-	-	-	-	-	-	-
4/1/93	-	150	-	-	-	-	-	-	-	-	-	-	-	-
7/2/93	-	82	-	-	-	-	-	-	-	-	-	-	-	-
10/4/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
4/28/94	-	120	-	-	-	-	-	-	-	-	-	-	-	-
10/19/94	-	170	-	-	-	-	-	-	-	-	-	-	-	-
4/17/95	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
MW-3														
5/25/91	-	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
10/7/91	ND	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
1/10/92	ND	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
4/8/92	ND	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
7/2/92	ND	ND	-	-	-	ND	-	-	-	-	ND	ND	-	-
10/6/92	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
1/6/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
4/1/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
7/2/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-
10/4/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DPE	ETBE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Barium	Cadmium (dissolved)	
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )					
<b>MW-3 continued</b>															
4/28/94	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4/17/95	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4/8/96	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
8/31/98	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	-
4/5/99	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	-
3/31/00	-	ND	ND	ND	-	-	ND	ND	ND	ND	-	-	-	-	-
4/6/01	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
4/22/02	-	ND<50	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	-	-	-	-	-
4/11/03	-	ND<50	ND<100	-	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	-	-	-	-	-
5/12/04	-	ND<50	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	-	-	-	-	-
6/7/05	-	ND<50	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	-	-	-	-	-
9/26/05	ND>200	-	ND<10	ND>250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	-	-	-	-	-
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	-	-	-	-	-
3/23/06	ND<50	-	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0	ND<0.50	-	-	-	-	-
<b>MW-4</b>															
4/8/92	ND	110	-	-	ND	-	-	-	-	-	ND	ND	-	-	-
7/2/92	ND	240	-	-	ND	-	-	-	-	-	ND	ND	-	-	-
10/6/92	-	130	-	-	-	-	-	-	-	-	-	-	-	-	-
1/6/93	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-
4/1/93	-	210	-	-	-	-	-	-	-	-	-	-	-	-	-
7/2/93	-	210	-	-	-	-	-	-	-	-	-	-	-	-	-
10/4/93	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4/28/94	-	78	-	-	-	-	-	-	-	-	-	-	-	-	-
10/19/94	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4/17/95	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylenedibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Barium	Cadmium (dissolved)	
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )	( $\text{mg/l}$ )					
<b>MW-4 continued</b>															
4/8/96	--	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MW-5</b>															
1/27/94	ND	ND	--	--	--	ND	--	--	ND	ND	1.4	1.2	1.5	0.0035	--
4/28/94	ND	ND	--	--	--	ND	--	--	ND	ND	ND	ND	ND	1.6	0.46
10/19/94	ND	ND	--	--	--	ND	--	--	ND	ND	ND	ND	ND	1.6	0.094
4/17/95	ND	ND	--	--	--	ND	--	--	ND	ND	ND	ND	ND	1.1	0.24
10/12/95	ND	ND	--	--	--	ND	--	--	ND	ND	ND	ND	ND	0.53	0.17
<b>MW-6</b>															
9/26/05	ND<200	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
3/23/06	ND<50	--	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
<b>MW-7</b>															
9/26/05	ND<200	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
12/1/05	ND<50	ND<1000	2400	ND<2000	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	--
3/23/06	ND<50	--	1200	ND<2000	ND<10	ND<10	ND<20	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	--	--
<b>MW-8</b>															
9/26/05	ND<200	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
3/23/06	ND<50	--	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
<b>MW-9</b>															
9/26/05	ND<200	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
3/23/06	ND<50	--	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--
<b>MW-10</b>															
9/26/05	ND<200	--	66	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	TPH-D	TPH-G (8015M)	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPPE	ETBE	TAME	Total Oil and Grease	1,2-Dichlorobenzene	1,4-Dichlorobenzene	Barium	Cadmium (dissolved)
	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\mu\text{g/l}$ )	( $\text{mg/l}$ )				
<b>MW-10</b>	continued													
12/1/05	ND<50	ND<500	93	ND<1000	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	--
3/23/06	ND<50	--	110	ND<1000	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	--
<b>MW-11</b>														
9/26/05	ND<200	--	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--
3/23/06	ND<50	--	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--
<b>MW-12</b>														
9/26/05	ND<200	--	1200	ND<250	ND<0.50	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--
12/1/05	ND<50	ND<50	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--
3/23/06	ND<50	--	ND<5.0	ND<100	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND	--

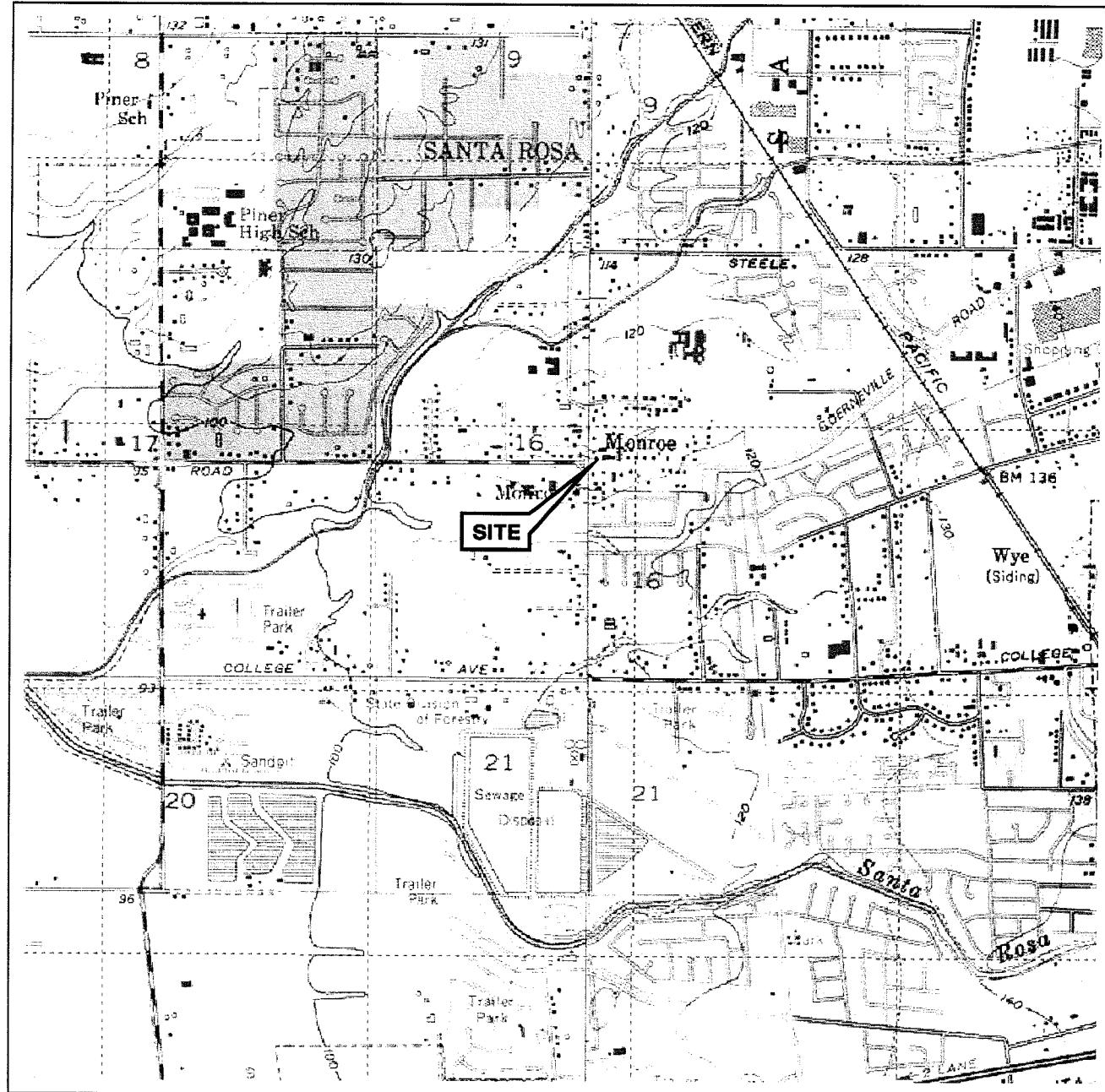
**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	Chromium (total)	Lead (total)	Mercury (total)	Nickel	Zinc (dissolved)	Nitrite (mg/l)
	(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-1</b>						
5/25/91	--	--	--	--	--	0.012
10/7/91	0.19	0.027	--	0.31	0.12	1.8
1/10/92	0.0053	0.0089	--	ND	0.11	--
4/8/92	ND	0.013	--	ND	0.02	20
7/2/92	0.13	0.017	--	0.38	0.15	--
10/6/92	ND	--	--	ND	--	1.2
1/6/93	ND	--	--	ND	--	--
4/1/93	0.045	--	--	0.13	--	19
7/2/93	0.011	--	--	ND	--	--
10/4/93	ND	--	--	ND	--	0.39
4/28/94	0.067	--	--	0.12	--	8.6
10/19/94	0.016	--	--	0.043	--	3.3
4/17/95	0.011	--	--	0.027	--	12
10/12/95	0.029	--	--	0.051	--	11
4/8/96	ND	--	--	ND	--	12
10/29/96	--	--	--	--	--	2.1
<b>MW-2</b>						
5/25/91	--	--	--	--	--	3.5
10/7/91	--	--	--	--	--	0.51
4/8/92	--	--	--	--	--	ND
10/6/92	--	--	--	--	--	35
4/1/93	--	--	--	--	--	2.9
10/4/93	--	--	--	--	--	5.5
4/28/94	--	--	--	--	--	2.5
10/19/94	--	--	--	--	--	3.6
4/17/95	--	--	--	--	--	4.9

**Table 2 b**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 5105**

Date Sampled	Chromium (total)	Lead (total)	Mercury (total)	Nickel	Zinc (dissolved)	Nitrite (mg/l)
(mg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
<b>MW-3</b>						
5/25/91	--	--	--	--	--	ND
10/7/91	--	--	--	--	--	18
4/8/92	--	--	--	--	--	24
10/6/92	--	--	--	--	--	26
4/1/93	--	--	--	--	--	22
10/4/93	--	--	--	--	--	63
4/28/94	--	--	--	--	--	20
4/17/95	--	--	--	--	--	23
4/8/96	--	--	--	--	--	21
<b>MW-4</b>						
4/8/92	--	--	--	--	--	5.7
10/6/92	--	--	--	--	--	4.3
4/1/93	--	--	--	--	--	6.8
10/4/93	--	--	--	--	--	2.3
4/28/94	--	--	--	--	--	3.6
10/19/94	--	--	--	--	--	ND
4/17/95	--	--	--	--	--	ND
10/12/95	--	--	--	--	--	0.66
4/8/96	--	--	--	--	--	0.77
<b>MW-5</b>						
1/27/94	--	--	ND	--	--	23
4/28/94	--	--	ND	--	--	29
10/19/94	--	--	.44	--	--	26
4/17/95	--	--	ND	--	--	24
10/12/95	--	--	ND	--	--	26

# FIGURES



0    1/4    1/2    3/4    1 MILE

SCALE 1:24,000



SOURCE:

United States Geological Survey  
7.5 Minute Topographic Map:  
Santa Rosa Quadrangle

QUADRANGLE LOCATION

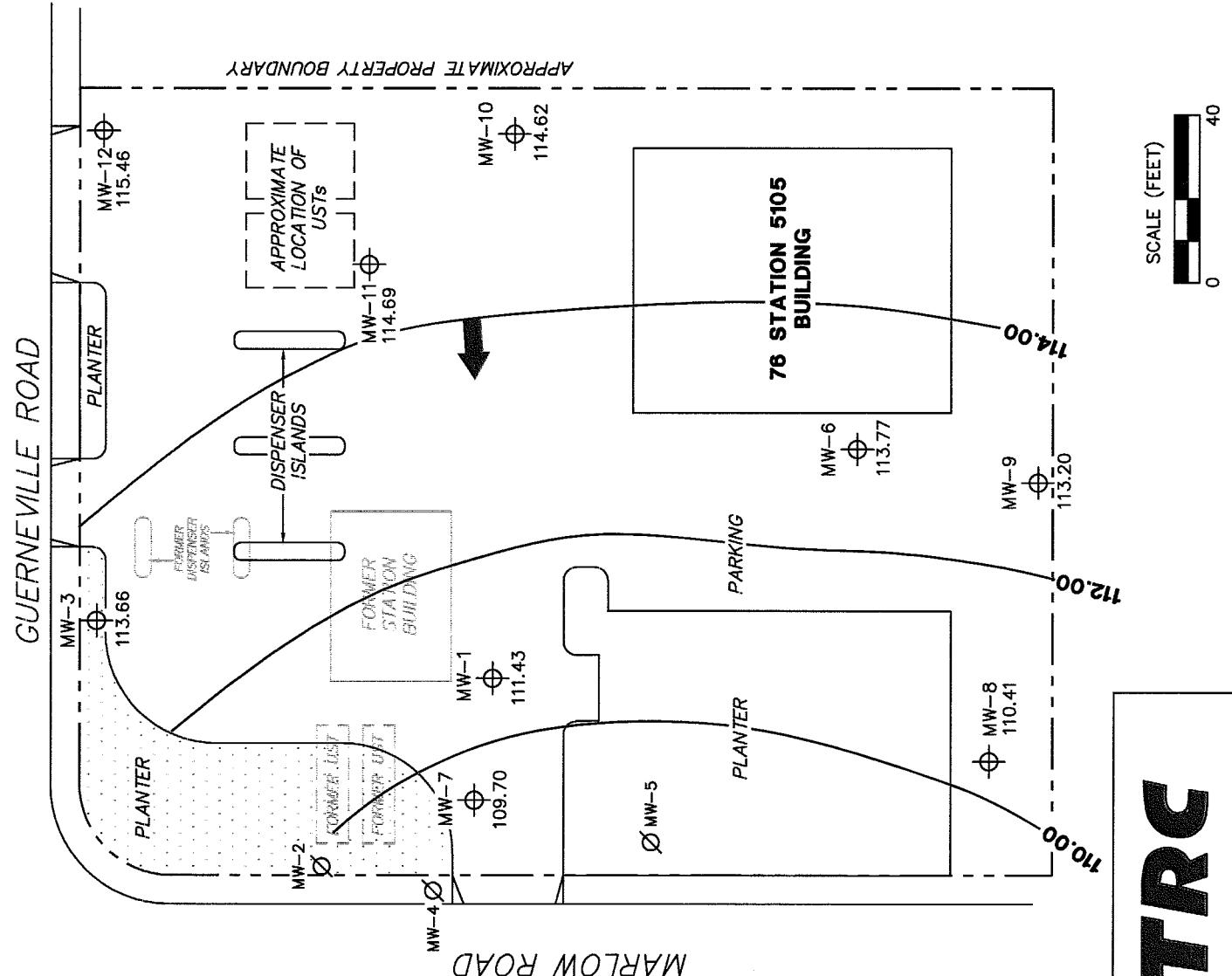


**VICINITY MAP**

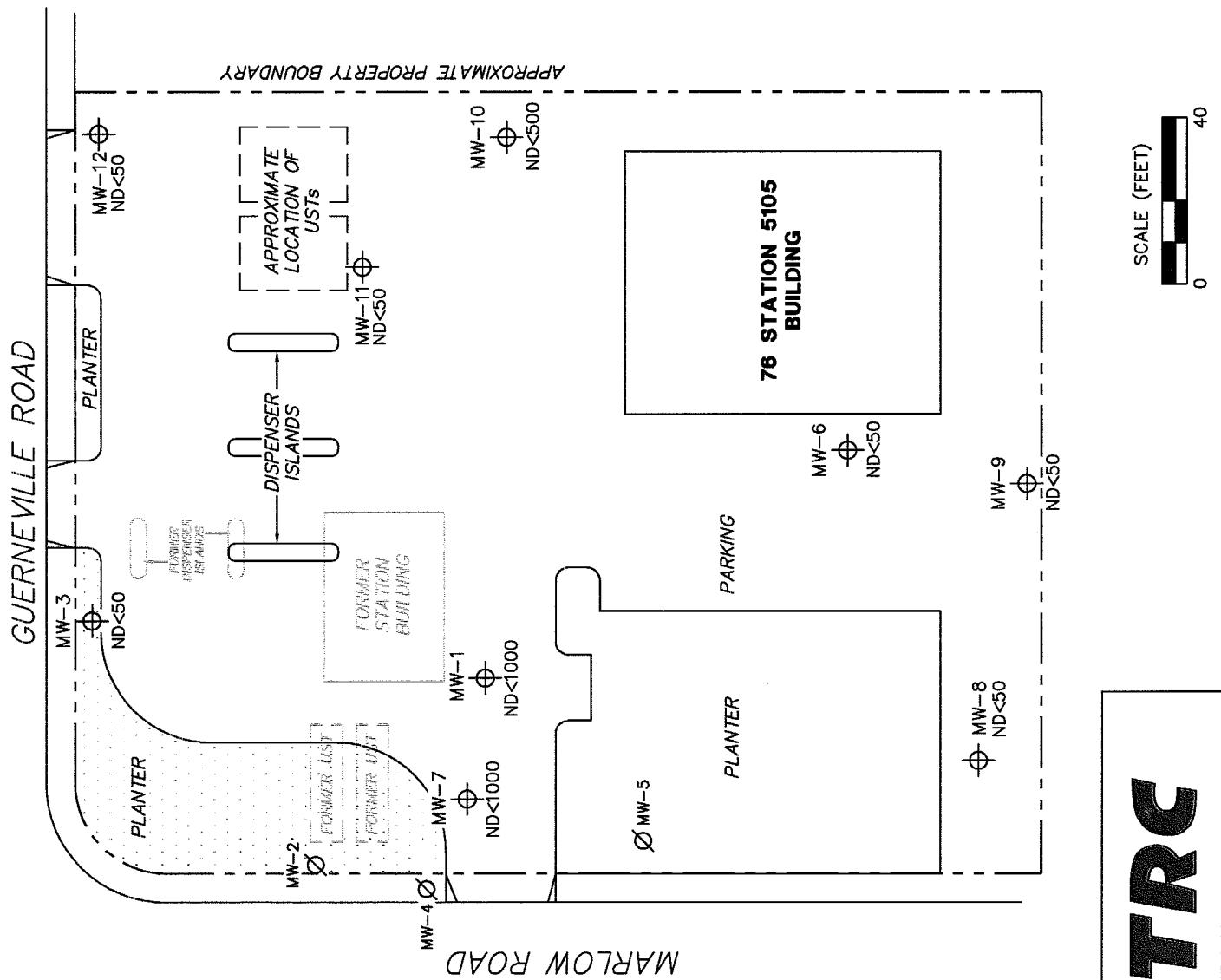
76 Station 5105  
1950 Guerneville Road  
Santa Rosa, California

**TRC**

**FIGURE 1**



**FIGURE 2**



**FIGURE 3**

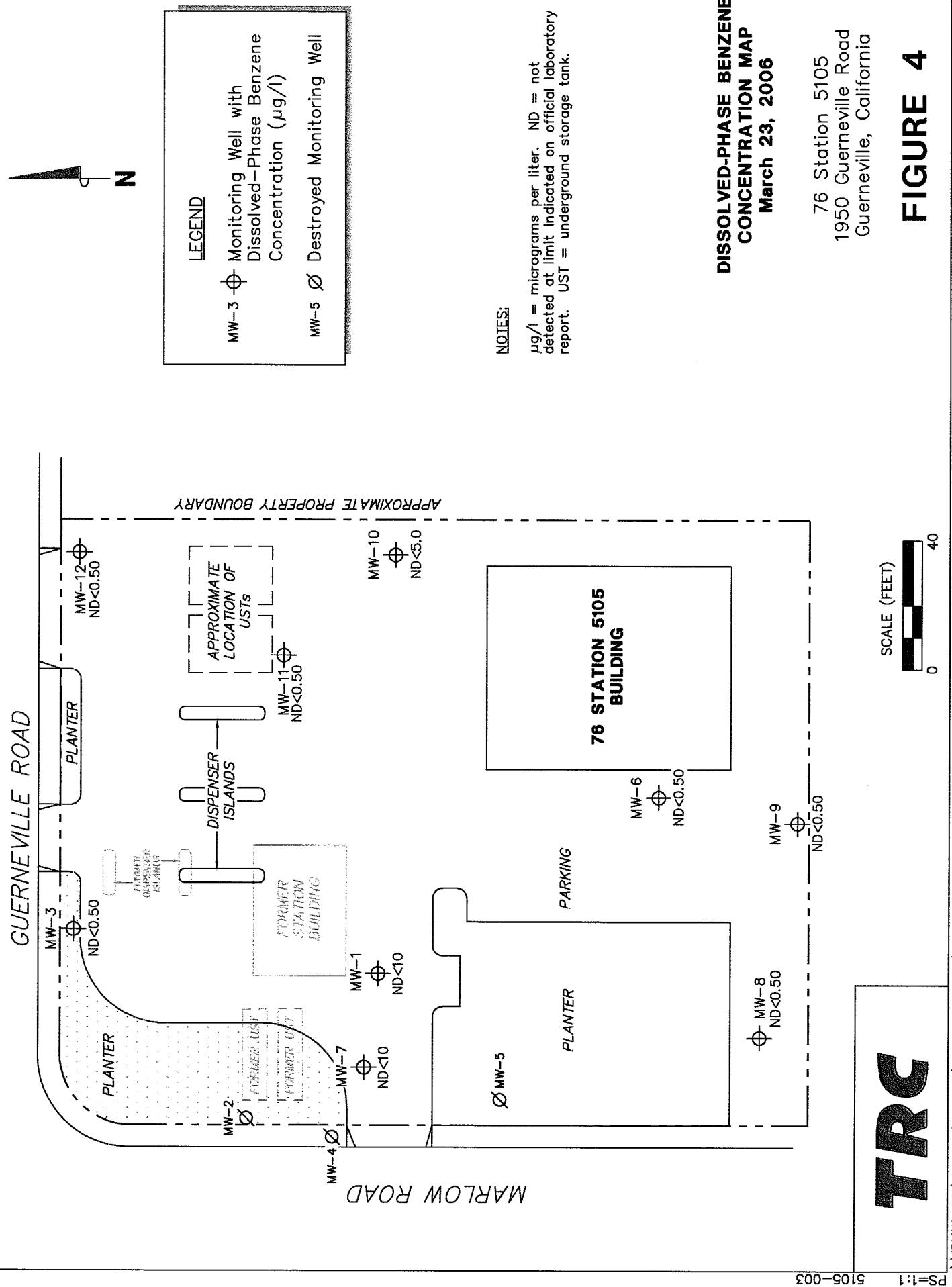


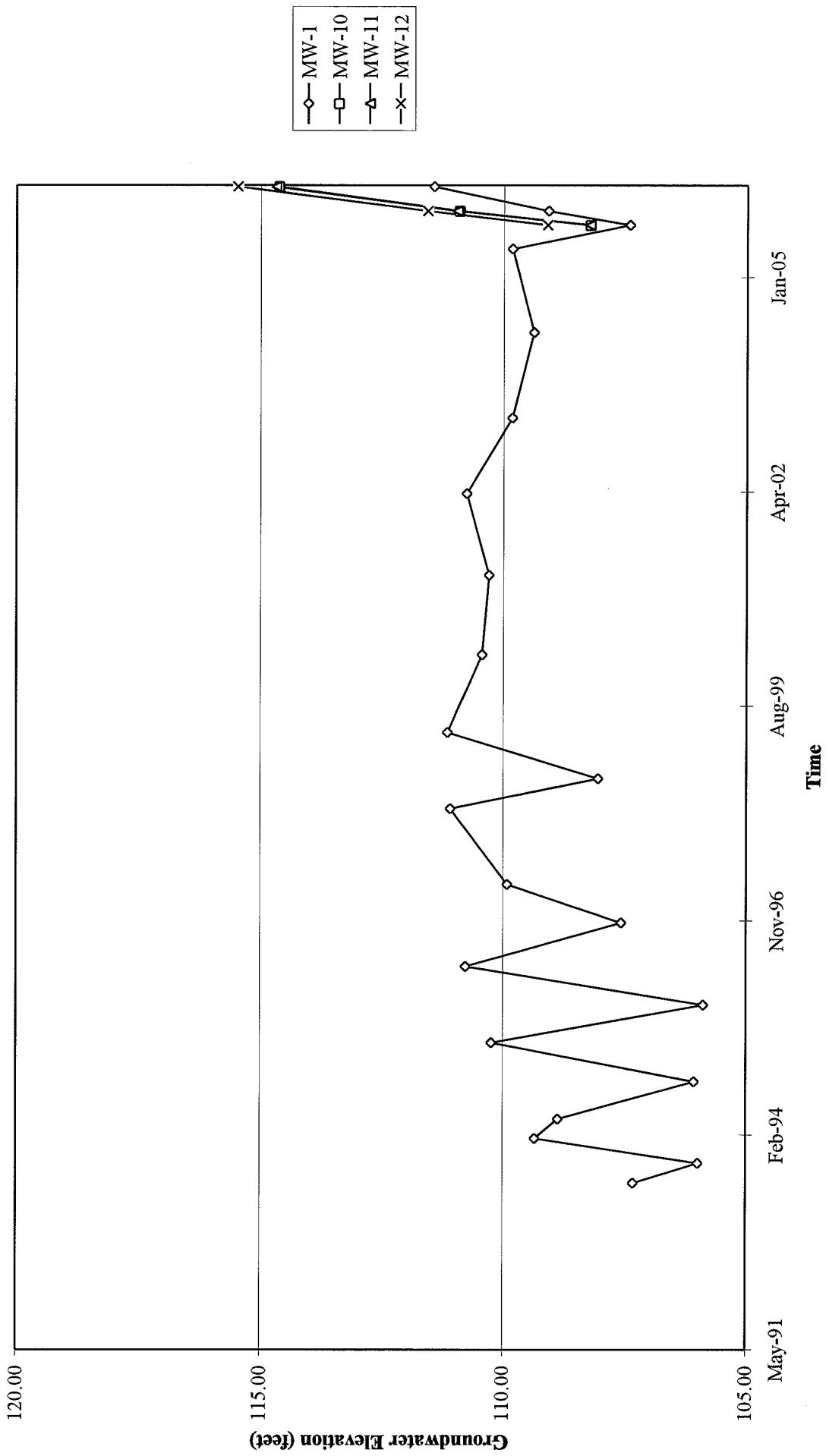
FIGURE 4

\\RVWNE-FSI\Graphics\Projects\BNumber\20-xxxx\20-0400\UnocalQMS\X-5000\5105+5105-QMS.dwg Apr 19, 2006 - 4:08pm bschmidt



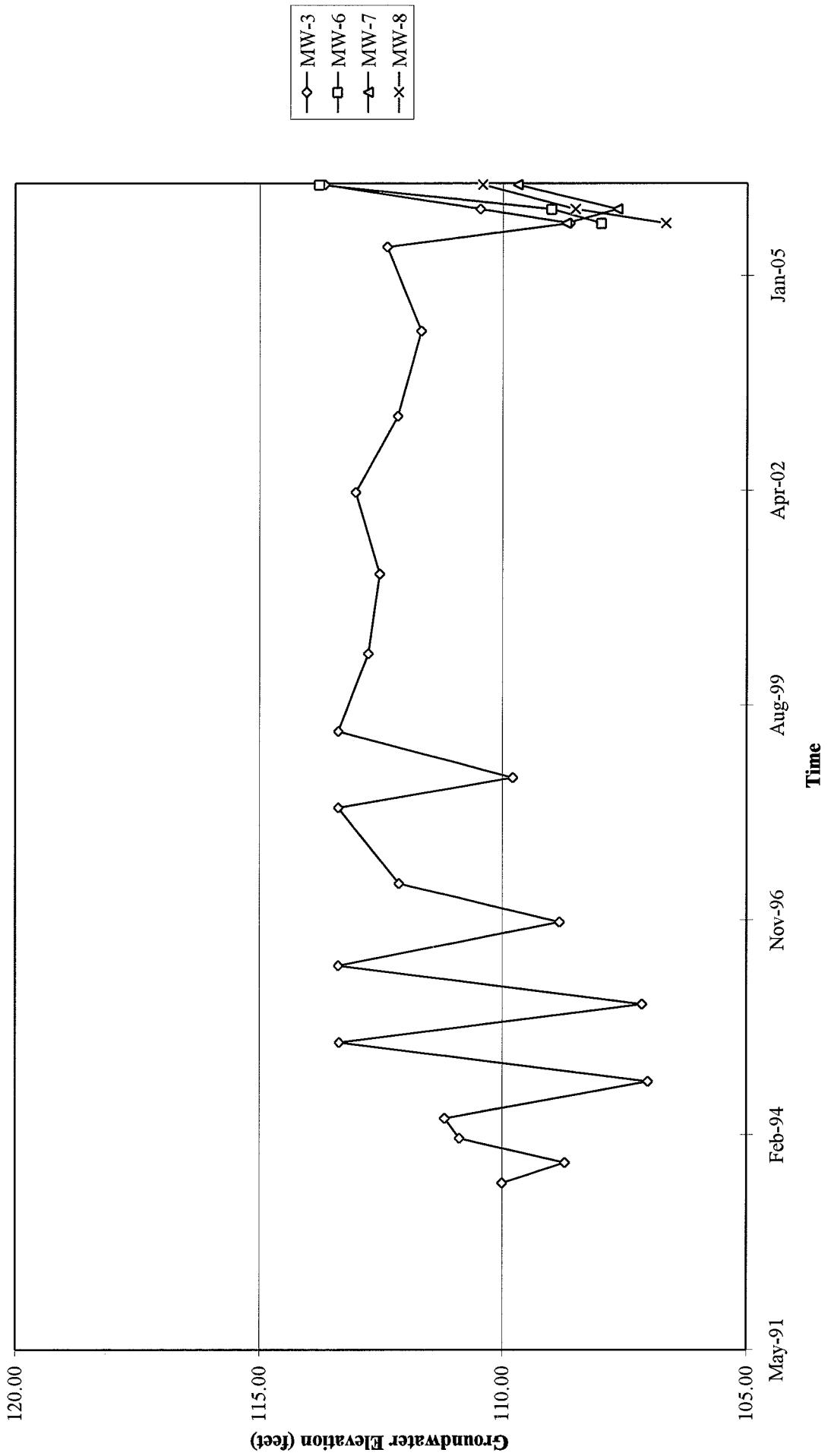
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 5105



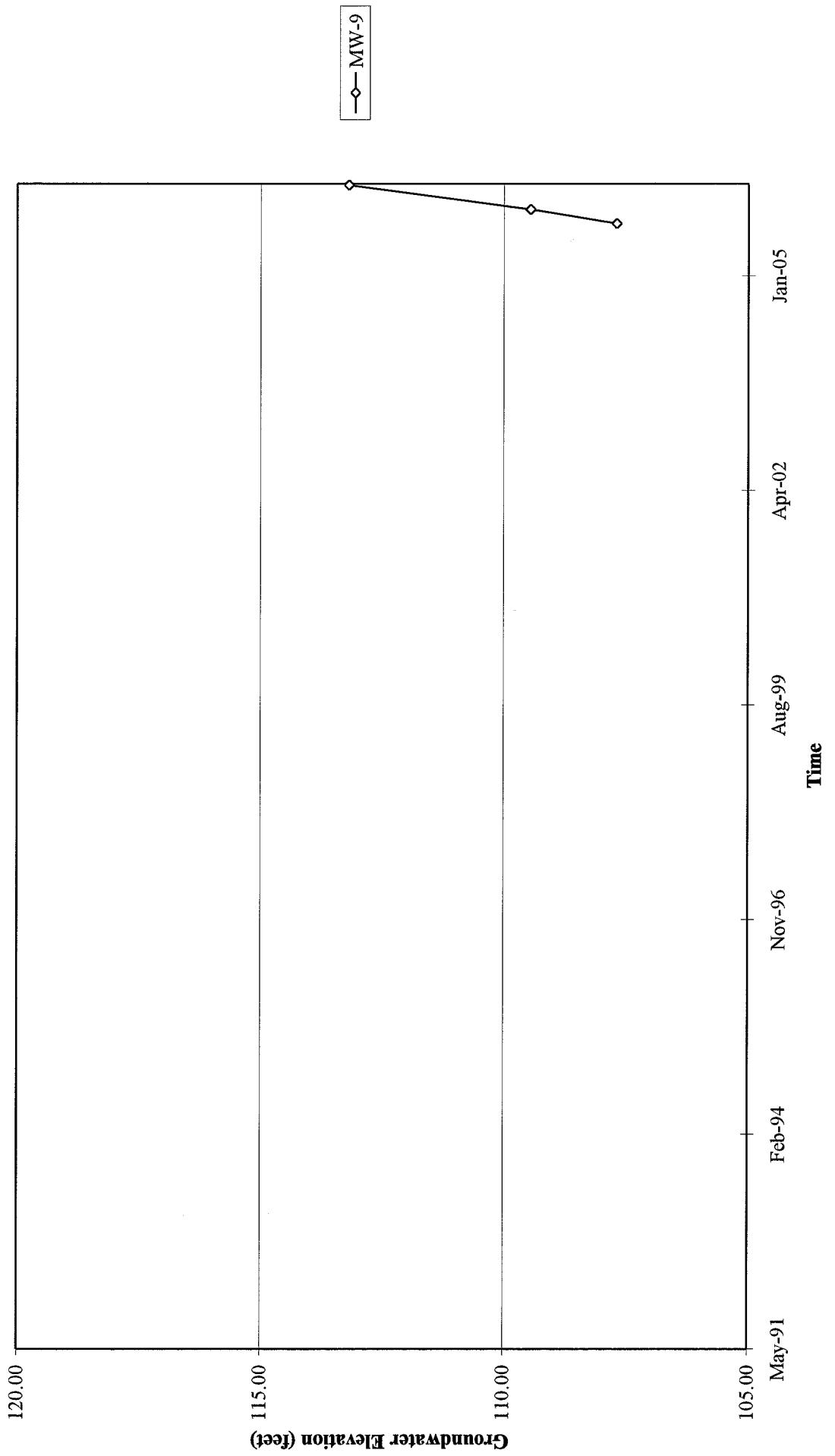
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
76 Station 5105



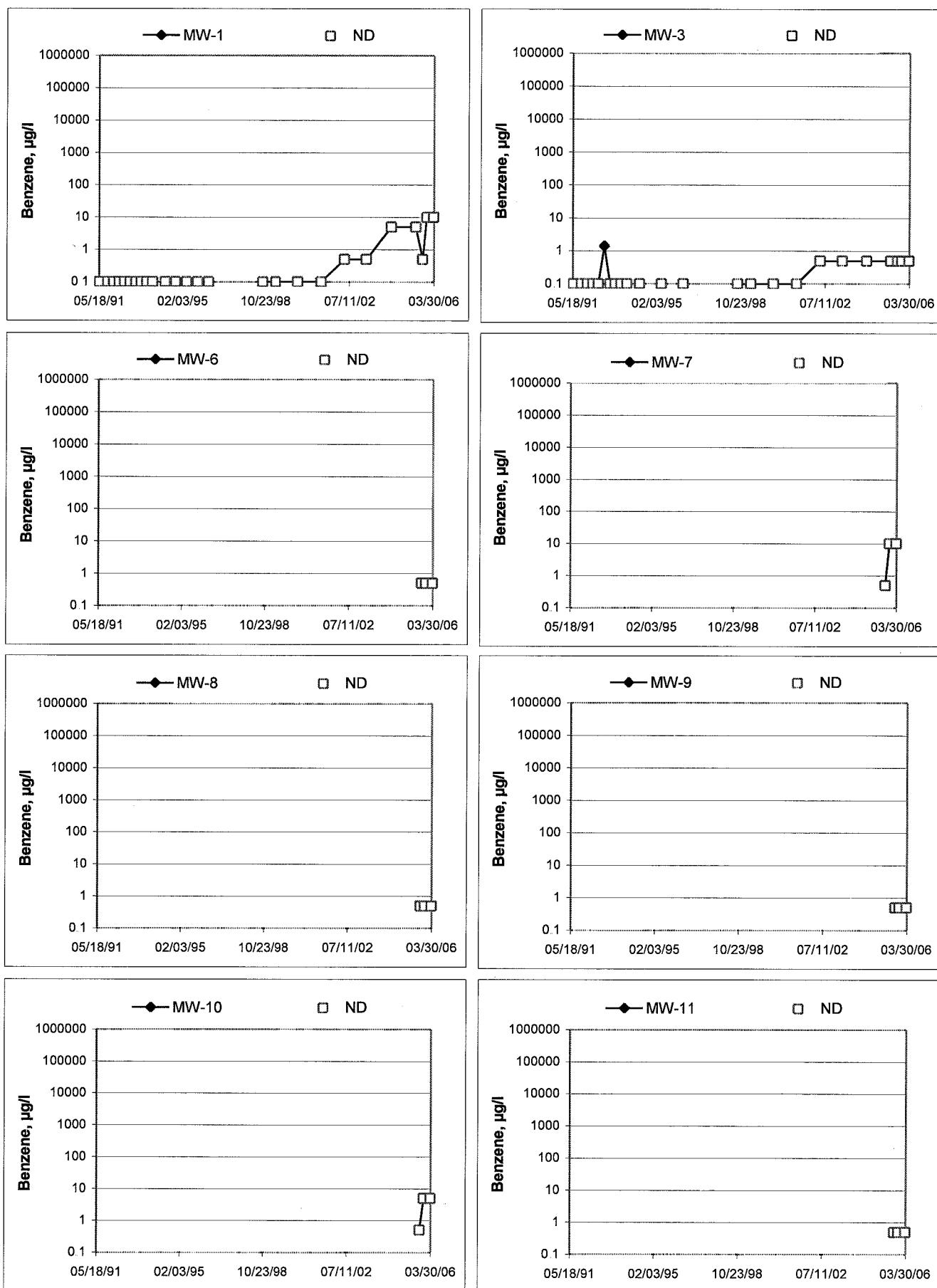
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time  
76 Station 5105

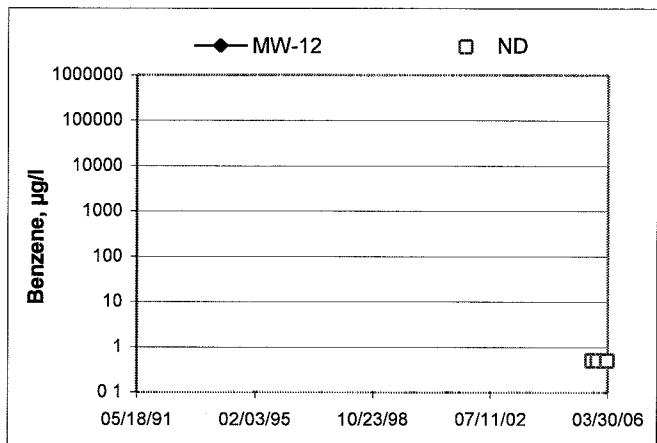


Elevations may have been corrected for apparent changes due to resurvey

**Benzene Concentrations vs Time**  
76 Station 5105



**Benzene Concentrations vs Time**  
76 Station 5105



## GENERAL FIELD PROCEDURES

### **Groundwater Monitoring and Sampling Assignments**

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

### **Fluid Level Measurements**

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

### **Purging and Groundwater Parameter Measurement**

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

## **Groundwater Sample Collection**

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable,  $\frac{1}{2}$ -inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

## **Sequence of Gauging, Purgng and Sampling**

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

## **Decontamination**

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

## **Exceptions**

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

## FIELD MONITORING DATA SHEET

Technician: J. Chidester

Job #/Task #: 41050001-FA20

Date: 3/23/06

Site # 5105

Project Manager K. Woodburne

Page 1 of 1

## **GROUNDWATER SAMPLING FIELD NOTES**

Technician: J. Chidester

Site: 5105

Project No.: 41050001

Date: 3/23/06

Well No.: MW-8

Purge Method: 2" Sub.

Depth to Water (feet): 11.75

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.28

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 13.53

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 14.46

1 Well Volume (gallons): 2.16

Well No.: MW-9

Purge Method: 2" Sub.

Depth to Water (feet): 10.39

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.31

LPH & Water Recovered (gallons) \_\_\_\_\_

Water Column (feet): 14.92

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 13.3

1 Well Volume (gallons): 2.39

## **GROUNDWATER SAMPLING FIELD NOTES**

Technician: J. Chidester

Site: 5105

Project No.: 41050001

Date: 3/23/05

Well No.: MW-6

Purge Method: 2" Sub.

Depth to Water (feet): 10.25

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.23

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 14.98

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 13.25

1 Well Volume (gallons): 2.40

Well No.: MW-3

Purge Method: 2" Sub.

Depth to Water (feet): 8.09

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 24.42

LPH & Water Recovered (gallons):

Water Column (feet): 16.33

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.36

1 Well Volume (gallons): 2.61

## **GROUNDWATER SAMPLING FIELD NOTES**

Technician: J. Chidester

Site: 5105

Project No.: 41050001

Date: 3/23/06

Well No.: MW-12

Purge Method: 2" Sub.

Depth to Water (feet): 6.88

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 24.81

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 17.93

Casing Diameter (Inches): 2 1/4

80% Recharge Depth (feet): 10.47

1 Well Volume (gallons): 2.87

Well No.: MW-11

Purge Method: 2" Sub.

Depth to Water (feet): **8.45**

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.20

LPH & Water Recovered (gallons):

Water Column (feet): 16.75

Casing Diameter (Inches): 2 1/2

80% Recharge Depth (feet): 11.80

1 Well Volume (gallons): 2.68

## **GROUNDWATER SAMPLING FIELD NOTES**

Technician: J. Chidester

Site: 5105

Project No.: 41050001

Date: 3/23/06

Well No.: MW-10

Purge Method: 2<sup>nd</sup> Sub.

Depth to Water (feet): 8.93

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 24.88

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 15.95

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 12.12

1 Well Volume (gallons): 2.55

Well No.: MW-1

Purge Method: 2<sup>4</sup> Sub.

Depth to Water (feet): 11.30

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet) 28.53

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 17.23

Casing Diameter (Inches): 2<sup>1</sup>/<sub>2</sub>

80% Recharge Depth (feet): 14.75

1 Well Volume (gallons): 2.76

## GROUNDWATER SAMPLING FIELD NOTES

Technician: J. Chidester

Site: 5105

Project No.: 41050001

Date: 3/23/06

Well No.: MW-7

Purge Method: 2" Sub.

Depth to Water (feet): 11.76

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): 25.35

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): 13.59

Casing Diameter (Inches): 2<sup>1</sup>/<sub>2</sub>

80% Recharge Depth (feet): 14.48

1 Well Volume (gallons): 2.17

**Well No.:** \_\_\_\_\_

Purge Method: \_\_\_\_\_

Depth to Water (feet): \_\_\_\_\_

Depth to Product (feet): \_\_\_\_\_

Total Depth (feet): \_\_\_\_\_

LPH & Water Recovered (gallons): \_\_\_\_\_

Water Column (feet): \_\_\_\_\_

Casing Diameter (Inches): \_\_\_\_\_

80% Recharge Depth (feet): \_\_\_\_\_

1 Well Volume (gallons): \_\_\_\_\_



STL

## ANALYTICAL REPORT

Job Number: 720-2825-1

Job Description: Conoco Phillips #5105, Santa Rosa

For:  
TRC Solutions  
21 Technology Drive  
Irvine, CA 92718

Attention: Ms. Anju Farfan

A handwritten signature in black ink, appearing to read "Dimple Sharma".

---

Dimple Sharma  
Project Manager I  
dsharma@stl-inc.com  
04/17/2006  
Revision: 1

Project Manager: Dimple Sharma

**Severn Trent Laboratories, Inc.**  
STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566  
Tel (925) 484-1919 Fax (925) 484-1096 [www.stl-inc.com](http://www.stl-inc.com)

## METHOD SUMMARY

Client: TRC Solutions

Job Number: 720-2825-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS Purge-and-Trap	STL-SF	SW846	8260B
	STL-SF	SW846	5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846	8015B
Organic Compounds in Water by Microextraction	STL-SF	SW846	3511

### LAB REFERENCES:

STL-SF = STL-San Francisco

### METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: TRC Solutions

Job Number: 720-2825-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled		Date/Time Received	
720-2825-1	MW-8	Water	03/23/2006	1350	03/24/2006	1635
720-2825-2	MW-9	Water	03/23/2006	1405	03/24/2006	1635
720-2825-3	MW-6	Water	03/23/2006	1415	03/24/2006	1635
720-2825-4	MW-3	Water	03/23/2006	1430	03/24/2006	1635
720-2825-5	MW-12	Water	03/23/2006	1440	03/24/2006	1635
720-2825-6	MW-11	Water	03/23/2006	1450	03/24/2006	1635
720-2825-7	MW-10	Water	03/23/2006	1500	03/24/2006	1635
720-2825-8	MW-1	Water	03/23/2006	1510	03/24/2006	1635
720-2825-9	MW-7	Water	03/23/2006	1525	03/24/2006	1635

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-8

Lab Sample ID: 720-2825-1

Date Sampled: 03/23/2006 1350

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7448	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200604\04
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	04/07/2006	2020		Final Weight/Volume:	10 mL
Date Prepared:	04/07/2006	2020			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND	H	0.50
Benzene	ND	H	0.50
Ethanol	ND	H *	100
Ethylbenzene	ND	H	0.50
MTBE	2.8	H	0.50
TAME	ND	H	0.50
Toluene	ND	H	0.50
Xylenes, Total	ND	H	1.0
TBA	ND	H	5.0
DIPE	ND	H	1.0
EDB	ND	H	0.50
Gasoline Range Organics (GRO)-C6-C12	ND	H	50
Ethyl tert-butyl ether	ND	H	0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	103		77 - 121
1,2-Dichloroethane-d4	108		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID: MW-9**

Lab Sample ID: 720-2825-2  
Client Matrix: Water

Date Sampled: 03/23/2006 1405  
Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1226		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1226			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	98		77 - 121
1,2-Dichloroethane-d4	103		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-6

Lab Sample ID: 720-2825-3

Date Sampled: 03/23/2006 1415

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1330		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1330			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	96		77 - 121
1,2-Dichloroethane-d4	97		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID:** MW-3

Lab Sample ID: 720-2825-4

Date Sampled: 03/23/2006 1430

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1351		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1351			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	2.6		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	102		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID:** MW-12

Lab Sample ID: 720-2825-5

Date Sampled: 03/23/2006 1440

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1517		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1517			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	7.2		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec	Acceptance	Limits
Toluene-d8	89	77 - 121	
1,2-Dichloroethane-d4	99	73 - 130	

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID:** MW-11

Lab Sample ID: 720-2825-6

Date Sampled: 03/23/2006 1450

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1538		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1538			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	90		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	92		77 - 121
1,2-Dichloroethane-d4	101		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-10

Lab Sample ID: 720-2825-7

Date Sampled: 03/23/2006 1500

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	10			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1413		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1413			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		5.0
Benzene	ND		5.0
Ethanol	ND		1000
Ethylbenzene	ND		5.0
MTBE	700		5.0
TAME	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
TBA	110		50
DIPE	ND		10
EDB	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	ND		500
Ethyl tert-butyl ether	ND		5.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8	106		77 - 121
1,2-Dichloroethane-d4	107		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID: MW-1**

Lab Sample ID: 720-2825-8

Date Sampled: 03/23/2006 1510

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	20			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1434		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1434			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		10
Benzene	ND		10
Ethanol	ND		2000
Ethylbenzene	ND		10
MTBE	910		10
TAME	ND		10
Toluene	ND		10
Xylenes, Total	ND		20
TBA	ND		100
DIPE	ND		20
EDB	ND		10
Gasoline Range Organics (GRO)-C6-C12	ND		1000
Ethyl tert-butyl ether	ND		10
Surrogate	%Rec		Acceptance Limits
Toluene-d8	111		77 - 121
1,2-Dichloroethane-d4	102		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-7

Lab Sample ID: 720-2825-9

Date Sampled: 03/23/2006 1525

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-7119	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200603\03
Dilution:	20			Initial Weight/Volume:	10 mL
Date Analyzed:	03/28/2006	1456		Final Weight/Volume:	10 mL
Date Prepared:	03/28/2006	1456			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		10
Benzene	ND		10
Ethanol	ND		2000
Ethylbenzene	ND		10
MTBE	1400		10
TAME	ND		10
Toluene	ND		10
Xylenes, Total	ND		20
TBA	1200		100
DIPE	ND		20
EDB	ND		10
Gasoline Range Organics (GRO)-C6-C12	ND		1000
Ethyl tert-butyl ether	ND		10
Surrogate	%Rec		Acceptance Limits
Toluene-d8	99		77 - 121
1,2-Dichloroethane-d4	113		73 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID:** MW-8

Lab Sample ID: 720-2825-1

Date Sampled: 03/23/2006 1350

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7483	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7402	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35 mL
Date Analyzed:	04/08/2006	1607		Final Weight/Volume:	2 mL
Date Prepared:	04/07/2006	0525		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND	H	50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	91		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

**Client Sample ID: MW-9**

Lab Sample ID: 720-2825-2

Date Sampled: 03/23/2006 1405

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1737		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	72		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-6

Lab Sample ID: 720-2825-3

Date Sampled: 03/23/2006 1415

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1804		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	64		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-3

Lab Sample ID: 720-2825-4

Date Sampled: 03/23/2006 1430

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1831		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	89		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-12

Lab Sample ID: 720-2825-5

Date Sampled: 03/23/2006 1440

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1858		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	64		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-11

Lab Sample ID: 720-2825-6

Date Sampled: 03/23/2006 1450

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1926		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	71		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-10

Lab Sample ID: 720-2825-7

Date Sampled: 03/23/2006 1500

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/03/2006	1953		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	62		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-1

Lab Sample ID: 720-2825-8

Date Sampled: 03/23/2006 1510

Client Matrix: Water

Date Received: 03/24/2006 1635

### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-7451	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7331	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/06/2006	1119		Final Weight/Volume:	2 mL
Date Prepared:	04/05/2006	0705		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	89		60 - 130

## Analytical Data

Client: TRC Solutions

Job Number: 720-2825-1

Client Sample ID: MW-7

Lab Sample ID: 720-2825-9

Date Sampled: 03/23/2006 1525

Client Matrix: Water

Date Received: 03/24/2006 1635

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### 8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

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Method:	8015B	Analysis Batch:	720-7339	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-7101	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	04/04/2006	1106		Final Weight/Volume:	2 mL
Date Prepared:	03/29/2006	1146		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	74		60 - 130

## DATA REPORTING QUALIFIERS

Client: TRC Solutions

Job Number: 720-2825-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
GC/MS VOA	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time
GC Semi VOA	H	Sample was prepped or analyzed beyond the specified holding time

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>				
<b>Analysis Batch:720-7119</b>				
LCS 720-7119/15	Lab Control Spike	Water	8260B	
LCSD 720-7119/14	Lab Control Spike Duplicate	Water	8260B	
MB 720-7119/16	Method Blank	Water	8260B	
720-2825-2	MW-9	Water	8260B	
720-2825-2MS	Matrix Spike	Water	8260B	
720-2825-2MSD	Matrix Spike Duplicate	Water	8260B	
720-2825-3	MW-6	Water	8260B	
720-2825-4	MW-3	Water	8260B	
720-2825-5	MW-12	Water	8260B	
720-2825-6	MW-11	Water	8260B	
720-2825-7	MW-10	Water	8260B	
720-2825-8	MW-1	Water	8260B	
720-2825-9	MW-7	Water	8260B	
<b>Analysis Batch:720-7448</b>				
LCS 720-7448/8	Lab Control Spike	Water	8260B	
LCSD 720-7448/7	Lab Control Spike Duplicate	Water	8260B	
MB 720-7448/9	Method Blank	Water	8260B	
720-2825-1	MW-8	Water	8260B	
720-2984-A-2 MS	Matrix Spike	Water	8260B	
720-2984-A-2 MSD	Matrix Spike Duplicate	Water	8260B	

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>				
<b>Prep Batch: 720-7101</b>				
LCS 720-7101/2-A	Lab Control Spike	Water	3511	
LCSD 720-7101/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-7101/1-A	Method Blank	Water	3511	
720-2825-2	MW-9	Water	3511	
720-2825-3	MW-6	Water	3511	
720-2825-4	MW-3	Water	3511	
720-2825-5	MW-12	Water	3511	
720-2825-6	MW-11	Water	3511	
720-2825-7	MW-10	Water	3511	
720-2825-9	MW-7	Water	3511	
<b>Prep Batch: 720-7331</b>				
LCS 720-7331/2-A	Lab Control Spike	Water	3511	
LCSD 720-7331/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-7331/1-A	Method Blank	Water	3511	
720-2825-8	MW-1	Water	3511	
<b>Prep Batch: 720-7402</b>				
LCS 720-7402/2-A	Lab Control Spike	Water	3511	
LCSD 720-7402/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-7402/1-A	Method Blank	Water	3511	
720-2825-1	MW-8	Water	3511	
<b>Analysis Batch:720-7339</b>				
LCS 720-7101/2-A	Lab Control Spike	Water	8015B	720-7101
LCSD 720-7101/3-A	Lab Control Spike Duplicate	Water	8015B	720-7101
MB 720-7101/1-A	Method Blank	Water	8015B	720-7101
720-2825-2	MW-9	Water	8015B	720-7101
720-2825-3	MW-6	Water	8015B	720-7101
720-2825-4	MW-3	Water	8015B	720-7101
720-2825-5	MW-12	Water	8015B	720-7101
720-2825-6	MW-11	Water	8015B	720-7101
720-2825-7	MW-10	Water	8015B	720-7101
720-2825-9	MW-7	Water	8015B	720-7101
<b>Analysis Batch:720-7451</b>				
LCS 720-7331/2-A	Lab Control Spike	Water	8015B	720-7331
LCSD 720-7331/3-A	Lab Control Spike Duplicate	Water	8015B	720-7331
MB 720-7331/1-A	Method Blank	Water	8015B	720-7331
720-2825-8	MW-1	Water	8015B	720-7331
<b>Analysis Batch:720-7483</b>				
LCS 720-7402/2-A	Lab Control Spike	Water	8015B	720-7402
LCSD 720-7402/3-A	Lab Control Spike Duplicate	Water	8015B	720-7402
MB 720-7402/1-A	Method Blank	Water	8015B	720-7402
720-2825-1	MW-8	Water	8015B	720-7402

STL San Francisco

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

**Method Blank - Batch: 720-7119**

Lab Sample ID: MB 720-7119/16  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 03/28/2006 1101  
Date Prepared: 03/28/2006 1101

Analysis Batch: 720-7119  
Prep Batch: N/A  
Units: ug/L

**Method: 8260B**  
**Preparation: 5030B**

Instrument ID: Varian 3900E  
Lab File ID: c:\varianws\data\200603\03  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate		% Rec	Acceptance Limits
Toluene-d8	101		77 - 121
1,2-Dichloroethane-d4	103		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### Laboratory Control/

### Laboratory Control Duplicate Recovery Report - Batch: 720-7119 Preparation: 5030B

LCS Lab Sample ID: LCS 720-7119/15  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 03/28/2006 1019  
Date Prepared: 03/28/2006 1019

Analysis Batch: 720-7119  
Prep Batch: N/A  
Units: ug/L

Method: 8260B

Instrument ID: Varian 3900E  
Lab File ID: c:\varianws\data\200603\03  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: CSD 720-7119/14  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 03/28/2006 1040  
Date Prepared: 03/28/2006 1040

Analysis Batch: 720-7119  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900E  
Lab File ID: c:\varianws\data\200603\032  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	91	87	69 - 129	5	25	
MTBE	100	99	65 - 165	1	25	
Toluene	108	99	70 - 130	8	25	
Surrogate	LCS % Rec	LCSD % Rec			Acceptance Limits	
Toluene-d8	108	97			77 - 121	
1,2-Dichloroethane-d4	95	101			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-7119

**Method: 8260B**  
**Preparation: 5030B**

MS Lab Sample ID: 720-2825-2

Analysis Batch: 720-7119

Client Matrix: Water

Prep Batch: N/A

Dilution:

1.0

Date Analyzed: 03/28/2006 1248

Instrument ID: Varian 3900E

Date Prepared: 03/28/2006 1248

Lab File ID: c:\varianws\data\200603\0

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2825-2

Analysis Batch: 720-7119

Client Matrix: Water

Prep Batch: N/A

Dilution:

1.0

Date Analyzed: 03/28/2006 1309

Instrument ID: Varian 3900E

Date Prepared: 03/28/2006 1309

Lab File ID: c:\varianws\data\200603\03

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

### Analyte

### % Rec

MS

MSD

Limit

RPD

RPD Limit

MS Qual MSD Qual

Benzene

76

94

69 - 129

20

20

MTBE

86

86

65 - 165

0

20

Toluene

87

95

70 - 130

9

20

### Surrogate

### MS % Rec

### MSD % Rec

### Acceptance Limits

Toluene-d8

101

97

77 - 121

1,2-Dichloroethane-d4

105

103

73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

**Method Blank - Batch: 720-7448**

Lab Sample ID: MB 720-7448/9  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1126  
Date Prepared: 04/07/2006 1126

Analysis Batch: 720-7448  
Prep Batch: N/A  
Units: ug/L

**Method: 8260B**  
**Preparation: 5030B**

Instrument ID: Varian 3900C  
Lab File ID: c:\saturnws\data\200604\04  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec		Acceptance Limits
Toluene-d8	103		77 - 121
1,2-Dichloroethane-d4	99		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### Laboratory Control/

### Laboratory Control Duplicate Recovery Report - Batch: 720-7448 Preparation: 5030B

LCS Lab Sample ID: LCS 720-7448/8  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1005  
Date Prepared: 04/07/2006 1005

Analysis Batch: 720-7448  
Prep Batch: N/A  
Units: ug/L

Method: 8260B

Preparation: 5030B

Instrument ID: Varian 3900C  
Lab File ID: c:\saturnws\data\200604\04  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: CSD 720-7448/7  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1032  
Date Prepared: 04/07/2006 1032

Analysis Batch: 720-7448  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900C  
Lab File ID: c:\saturnws\data\200604\04C  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	97	104	69 - 129	7	25	
MTBE	98	109	65 - 165	11	25	
Toluene	102	108	70 - 130	5	25	
Surrogate	LCS	% Rec	LCSD	% Rec	Acceptance Limits	
Toluene-d8	106		101		77 - 121	
1,2-Dichloroethane-d4	96		100		73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-7448

**Method: 8260B**  
**Preparation: 5030B**

MS Lab Sample ID: 720-2984-A-2 MS  
Client Matrix: Water  
Dilution: 10  
Date Analyzed: 04/07/2006 1834  
Date Prepared: 04/07/2006 1834

Analysis Batch: 720-7448  
Prep Batch: N/A

Instrument ID: Varian 3900C  
Lab File ID: c:\saturnws\data\200604\04  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-2984-A-2 MSD  
Client Matrix: Water  
Dilution: 10  
Date Analyzed: 04/07/2006 1900  
Date Prepared: 04/07/2006 1900

Analysis Batch: 720-7448  
Prep Batch: N/A

Instrument ID: Varian 3900C  
Lab File ID: c:\saturnws\data\200604\04  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

Analyte	% Rec		RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD				
Benzene	69	89	69 - 129	24	20	*
MTBE	87	104	65 - 165	17	20	
Toluene	68	87	70 - 130	18	20	*
Surrogate	MS % Rec	MSD % Rec			Acceptance	Limits
Toluene-d8	102	104			77 - 121	
1,2-Dichloroethane-d4	110	107			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

**Method Blank - Batch: 720-7101**

**Method: 8015B**

**Preparation: 3511**

Lab Sample ID: MB 720-7101/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/03/2006 1615  
Date Prepared: 03/29/2006 1146

Analysis Batch: 720-7339  
Prep Batch: 720-7101  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	67		60 - 130

**Laboratory Control/**

**Laboratory Control Duplicate Recovery Report - Batch: 720-7101**

**Method: 8015B**

**Preparation: 3511**

LCS Lab Sample ID: LCS 720-7101/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/04/2006 1133  
Date Prepared: 03/29/2006 1146

Analysis Batch: 720-7339  
Prep Batch: 720-7101  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: CSD 720-7101/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/04/2006 1200  
Date Prepared: 03/29/2006 1146

Analysis Batch: 720-7339  
Prep Batch: 720-7101  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
	LCS	LCSD					
Diesel Range Organics [C9-C24]	63	63	50 - 150	1	25		
Surrogate	LCS % Rec	LCSD % Rec				Acceptance Limits	
o-Terphenyl	85	86				60 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

**Method Blank - Batch: 720-7331**

**Method: 8015B**

**Preparation: 3511**

Lab Sample ID: MB 720-7331/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/05/2006 1348  
Date Prepared: 04/05/2006 0705

Analysis Batch: 720-7451  
Prep Batch: 720-7331  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	83		60 - 130

**Laboratory Control/**

**Laboratory Control Duplicate Recovery Report - Batch: 720-7331**

**Method: 8015B**

**Preparation: 3511**

LCS Lab Sample ID: CS 720-7331/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/06/2006 1246  
Date Prepared: 04/05/2006 0705

Analysis Batch: 720-7451  
Prep Batch: 720-7331  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: CSD 720-7331/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/06/2006 1315  
Date Prepared: 04/05/2006 0705

Analysis Batch: 720-7451  
Prep Batch: 720-7331  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35.00 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	78	84	50 - 150	7	25		
Surrogate	LCS % Rec	LCSD % Rec				Acceptance Limits	
o-Terphenyl	115	114				60 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: TRC Solutions

Job Number: 720-2825-1

**Method Blank - Batch: 720-7402**

**Method: 8015B**

**Preparation: 3511**

Lab Sample ID: MB 720-7402/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1446  
Date Prepared: 04/07/2006 0525

Analysis Batch: 720-7483  
Prep Batch: 720-7402  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	83		60 - 130

**Laboratory Control/**

**Laboratory Control Duplicate Recovery Report - Batch: 720-7402 Preparation: 3511**

LCS Lab Sample ID: LCS 720-7402/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1513  
Date Prepared: 04/07/2006 0525

Analysis Batch: 720-7483  
Prep Batch: 720-7402  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

LCSD Lab Sample ID: CSD 720-7402/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/07/2006 1541  
Date Prepared: 04/07/2006 0525

Analysis Batch: 720-7483  
Prep Batch: 720-7402  
Units: ug/L

Instrument ID: Varian DRO4  
Lab File ID: N/A  
Initial Weight/Volume: 35 mL  
Final Weight/Volume: 2 mL  
Injection Volume:  
Column ID: PRIMARY

Analyte	% Rec.					RPD	RPD Limit	LCS	Qual	LCSD	Qua
	LCS	LCSD	Limit	RPD							
Diesel Range Organics [C9-C24]	57	53	50 - 150	7			25				
Surrogate		LCS % Rec	LCSD % Rec								Acceptance Limits
o-Terphenyl		88	88								60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL-san Francisco

## ConocoPhillips Chain Of Custody Record

1220 D. J. LARSON

- 11 -

Pleasanton, CA 94566

'022E' 16.1.10246 /032E' 18.1.1006 Eny

SAMPLING COMPANY: TRC		PROJECT CONTACT (Hardcopy or PDF Report to): <b>Anju Farfan</b>																																																													
ADDRESS: 21 Technology Drive, Irvine CA 92618		SAMPLE NAME(S) (Print): <b>J. Chidester</b>																																																													
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: <a href="mailto:a.farfan@trcsolutions.com">a.farfan@trcsolutions.com</a>	SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED <input checked="" type="checkbox"/>																																																												
TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		SITE ADDRESS (Street and City): <b>1950 Culvererville Rd., Santa Rose</b>																																																													
		EDF DELIVERABLE TO (Ref. or Segment): <b>Peter Thomson, TRC</b> <a href="mailto:p.thomson@trcsolutions.com">p.thomson@trcsolutions.com</a>	GLOBAL ID NO.: <b>T0609700585</b>																																																												
		PHONE NO.: <b>949-341-7408</b>	CONOCOPHILLIPS SITE NUMBER: <b>5105</b>																																																												
		E-MAIL: <b>Thomas.Koske1</b>	GLOBAL ID NO.: <b>T0609700585</b>																																																												
		LAB USE ONLY	CONOCOPHILLIPS SITE MANAGER: <b>Thomas Koske</b>																																																												
		REQUESTED ANALYSES																																																													
<p>* Field Point name only required if different from Sample ID</p> <table border="1"> <thead> <tr> <th>LAB USE ONLY</th> <th>Sample Identification/Field Point Name*</th> <th>SAMPLING DATE</th> <th>SAMPLING TIME</th> <th>MATRIX</th> <th>NO. OF CONT.</th> </tr> </thead> <tbody> <tr> <td></td> <td>MV-8</td> <td>3/23/06</td> <td>1330</td> <td>W</td> <td>G <input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-9</td> <td></td> <td>1405</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-6</td> <td></td> <td>1415</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-3</td> <td></td> <td>1430</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-12</td> <td></td> <td>1440</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-11</td> <td></td> <td>1450</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-10</td> <td></td> <td>1500</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-1</td> <td></td> <td>1510</td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td>MV-17</td> <td></td> <td>1525</td> <td>V</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>TPPH by 8260B BTEX by 8260B 8 OXYS by 8260B</p> <p>VEA's HC</p>				LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.		MV-8	3/23/06	1330	W	G <input checked="" type="checkbox"/>		MV-9		1405		<input checked="" type="checkbox"/>		MV-6		1415		<input checked="" type="checkbox"/>		MV-3		1430		<input checked="" type="checkbox"/>		MV-12		1440		<input checked="" type="checkbox"/>		MV-11		1450		<input checked="" type="checkbox"/>		MV-10		1500		<input checked="" type="checkbox"/>		MV-1		1510		<input checked="" type="checkbox"/>		MV-17		1525	V	<input checked="" type="checkbox"/>
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Date: 3/23/06	Time: 1015	Date: 3/24/06	Time: 1635																																																												

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: TRC Solutions

Job Number: 720-2825-1

**Login Number:** 2825

<b>Question</b>	<b>T/F/NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background.	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MS/MS.	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick turn-around needs.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

### **Limitations**

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.